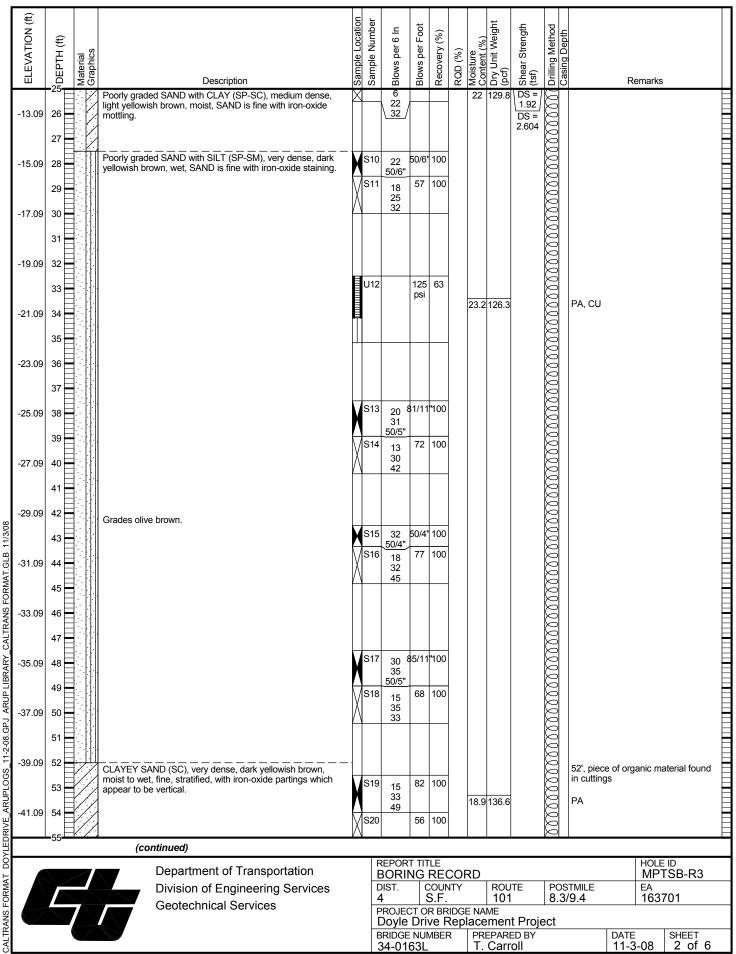
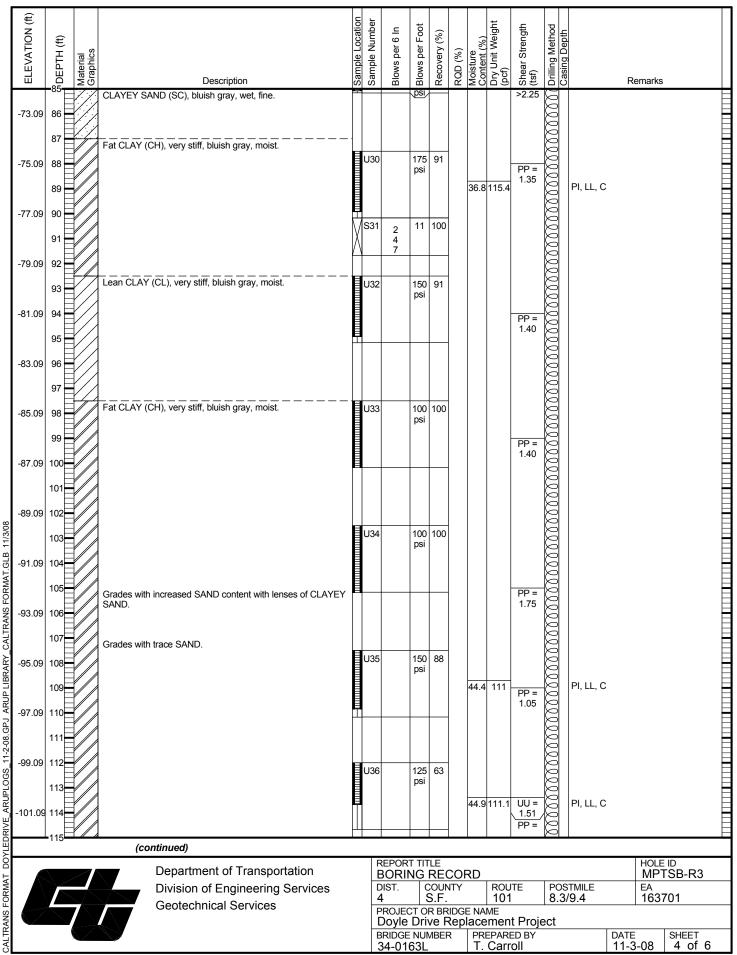
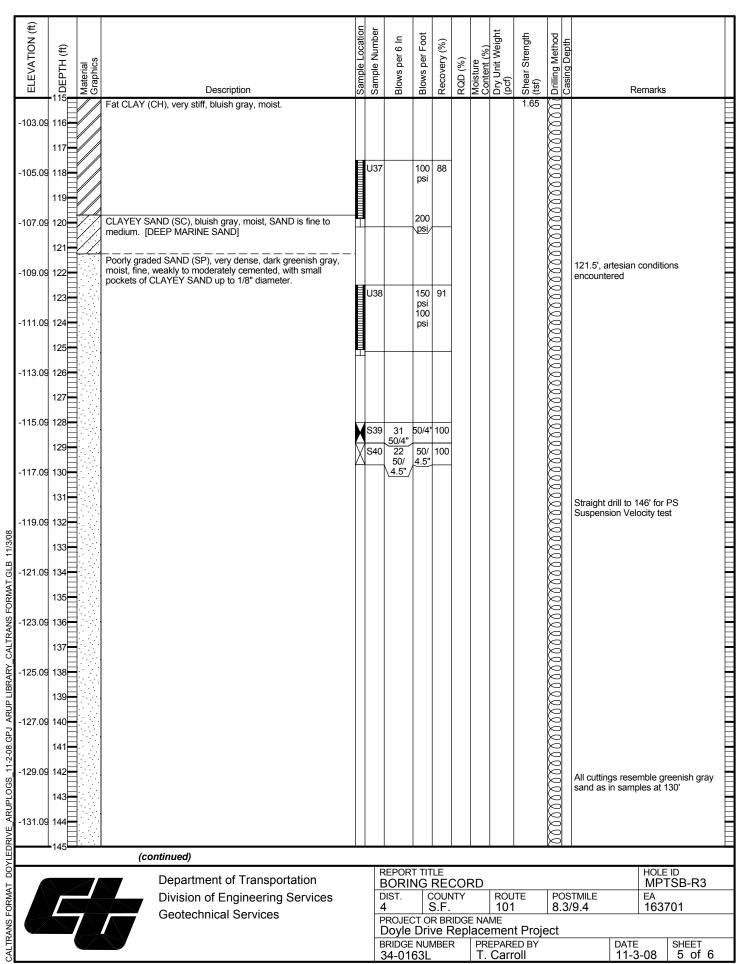
S. M		drich	12-6	1 DATE 6-07	12-10-0	07	N2120 BOREHO	713.0	086	/ E5	996	888	0.46	67 (	(NAE				MP SURFACE	SB-		
			and Test	ing, Inc.			Offset														ATION AVD88	()
DRILLIN	NG ME	THOD					DRILL RI		`										BOREH	•		_
Mud SAMPL		,	AND SIZE(S	S) (ID)			Failing SPT HAM												5 in.	R FFFIC	IENCY, E	Ri
					y (2.87"), F	Pitcher (2.87				lbs.	, 30	-inc	ch d	rop					72.89		iLitor, L	
BOREH	HOLE E	BACKF	ILL AND CC rout back	MPLETION		(	GROUND READING	WATE								DRILLIN	IG (D	ATE)	TOTAL I		OF BORIN	IG
ELEVATION (ft)	DEPTH (ft)	Material Graphics			Description	1		Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	dasilig Deptil		Remark	6	
	0		loose, dark	brown, dry,	rith CLAY and SAND is fine	GRAVEL (SP- e, GRAVEL is ar		<u> </u>				_				<del>,,,</del>	Ī					_
10.91	2		with clumps Grades mo	s of CLAY.	[FILL]						11	100					<b> </b>					
0.01	3				 SP), loose, da	ark yellowish bro	 own,	- <b>X</b> S		3 4 7	11	100		18	126		$ \{\} $					
8.91	5		moist, ŠAN	ID is fine.				S		5 4	10	89										
6.91	6									6												
4.91	8 9			CH), soft, d	olant material. ark brown, we	et, with some or	ganic		14		50 psi	94										
2.91	10		CLAYEY S of SANDY	AND (SC), o	dark bluish gra lecayed veget	ay, wet, fine, wi tation. [MARINI	th lenses E SAND]										DDDDDD					
0.91	11 12					s. [BAY MUD]											MMM					
-1.09	13		trace fines. Poorly grad	[MARINE S led SAND (S	SAND] SP), medium (	sh gray, wet, fin dense, light yell OLMA SAND]			15		75 psi	100					00000					
-3.09	15																MMM					
	17		Grades with	h iron-oxide	mottling and	with black spec	ks.	N S	6	10	45	100					2000					
-5.09	18			ed SAND w	rith CLAY (SP	P-SC), medium of string with iron-	 dense,	- N	7	12 22 23 7	44						DOOD					
-7.09	20		mottling.	,	tent and grad					18 26							MMM					
-9.09	22		Grades yell	lowish browi	n, wet.												0000					
-11.09	23							S	;	18 36 44	80	100		oo ~	M 20 C	DS =	<u> </u>	PA				
11.03	25		Grades ver	-				X s	9		54	100		22.9 23.2	128.8 128	1.332	200	FA				
			(cc	ontinued)					REF	PORT	TIT	LE								HOL	E ID	
				Division	n of Engin	ransportatio eering Serv				RIN	1G I		COF ITY	RD	ROL 101			STMIL 3/9.4	.E		TSB-R	3
		1		Geotec	hnical Ser	rvices			PRO Do	yle	T OF Driv	R BR		ace	ME men	t Proj		,, <del></del>		'		
									BRI 34	DGE -016	NUN 331	1BEF	₹	PRI T	EPAR Carr	ED BY			DA 11	TE -3-08	SHEET 1 of	6



ELEVATION (#)		прертн (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Remarks
-43.0	09	56		CLAYEY SAND (SC), very dense, dark yellowish brown, moist to wet, fine, stratified, with iron-oxide partings which appear to be vertical.	X		14 \24 32							00000	
-45.0	09	57 <b>-</b> 58 <b>-</b> 59 <b>-</b>	/./	Poorly graded SAND (SP), very dense, dark yellowish brown, wet, fine, with iron-oxide mottling. Grades with trace fines.	$\square$	S21 S22	50/4" 21	50/4" 88/						00000	
-47.0		60			Λ		38 50/ 5.5"	11.5"						000000000000000000000000000000000000000	
-49.0	09	62			M	S23	27	50/6"	100					000000	
-51.0		64				S24	50/6" 23 33 42	75	100						Gray clayey sand with organic materials in drill cuttings PA  72', cuttings are very clayey
-53.0		66		Grades dense, bluish gray.										000000	Gray clayey sand with organic
-55.0		68		Grades dense, bluish gray.		U25		100 psi	28	2	21.7	129.2	UU = 0.23	00000000	materials in drill cuttings PA
-57.0		70 <b>-</b>												MMM	
-59.0 80/E/1	09	72 73		Poorly graded SAND with CLAY (SP-SC), dense, bluish gray,	V	S26	0	73	100					20000	72', cuttings are very clayey
RMAT.GLB 11/3/08	09	74 75		moist, fine, with pieces of GRAVÈL, and with black specks, organic odor detected.  CLAYEY SAND (SC), dense, bluish gray, moist, fine.	$\bigwedge$	S27	23 50 13 20	40	100						
ALTRANS FO	09	76 77		Lean CLAY (CL), very stiff, greenish gray, moist. [OLD BAY CLAY]	<del>/</del> \		20							000000	
LIBRARY_C/	09	78 <b>-</b>				U28		100 psi	88	ķ	30. <b>6</b> /	<b>√</b> 15.6⁄	PP = 1.13	000000	Piston did not shoot; tube came back broken - too stiff  PI, LL, C
-67.0	09	80		79.8', CLAY is horizontally fissured with very dark gray lenses of fine SAND up to 1/4" thick, with pockets of light olive gray hard lean CLAY up to 1/2" diameter.							3.1 18.4	123.5	0.34	DOD	
PLOGS_11-2-0	09	82		Grades with up to 3/4" thick very dark gray lenses of fine		U29		100 psi	97					00000000	PI, LL, C
VE -71.0	09	84		SAND.				150					DD	0000	
EDR		85 E	V. /. )	CLAYEY SAND (SC), bluish gray, wet, fine.  (continued)	Ħ								PP =	Ø	<u> </u>
RMAT DOYL				Department of Transportation Division of Engineering Services		E	REPOR BORII DIST.	1G	REC		D	ROU		PO	HOLE ID MPTSB-R3
CALTRANS FORMAT DOYLEDRIVE_ARUPLOGS_11-2-08 GPJ ARUP LIBRARY_CALTRANS FO	- <u>}</u>			Geotechnical Services		F [	ROJEC Doyle BRIDGE 34-01	Driv	∕e F	Repla	PRE	men	t Proje ED BY	•	DATE SHEET 11-3-08 3 of 6





ELEVATION (ft)	45 145 145 145 145 145 145 145 145 145 1	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	-	Casing Depth	Remarks
133.09													NN.		
	147		Borehole terminated at a depth of 146 feet on 12/10/2007.  See Boring Record Legend for soil classification chart and												
135.09	148		key to test data and sampler type.  Notes: (1) On 12/10/2007 downhole geophysical												
	149		(suspension) logging was performed by GEOVision, Inc. Shearwave velocity logging was performed between 14.76												
137.09	150		and 131.23 feet.												
	151														
139.09	152														
	153														
141.09	154														
	155														
143.09	156														
	157														
145.09	158														
	159														
147.09															
	161														
149.09															
151.09	163														
	165														
153.09	F														
	167														
155.09	F														
	169														
157.09	170														
	171														
159.09	172														
	173														
161.09	174														
	175														
			Department of Transportation		E	EPOR BORI	NG I	RE(	COF	RD					HOLE ID MPTSB-R3
	É		Division of Engineering Services Geotechnical Services		D 4	IST.	C	OUN S.F.	NTY		ROU 101		P(	STMILE 3/9.4	EA 163701
			Ocotoonincal Oci vices		[	ROJE	Dri۱	ve F	Repl	ace	men	t Proje	ect	1	
	,				B	RIDGE 34-01	: NUN	ИВЕF	≺	PRE	EPARI Carr	ED BY		DA	TE SHEET -3-08 6 of 6